BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-alpha-Tubulin TUBA1A Antibody

Catalog Number: A03989

About TUBA1A

alpha-Tubulin belongs to the tubulin superfamily, which is composed of six distinct families. Along with beta-tubulins, alpha-Tubulins are the major components of microtubules. These microtubules are involved in a wide variety of cellular activities ranging from mitosis and transport events to cell movement and the maintenance of cell shape. Alpha- and beta-tubulin dimers are assembled to 13 protofilaments that form a microtubule of 22-nm diameter (reviewed in 1). Tyrosine ligase adds a C-terminal tyrosine to monomeric alpha-Tubulin. Assembled microtubules can again be detyrosinated by a cytoskeleton-associated carboxypeptidase (2). Another post-translational modification of detyrosinated alpha-Tubulin is C-terminal polyglutamylation, which is characteristic of microtubules in neuronal cells and the mitotic spindle (3). Like GAPDH and ?-Actin, this antibody makes an excellent loading control in immunoblots.

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Overview

Product Name	Anti-alpha-Tubulin TUBA1A Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-alpha-Tubulin TUBA1A Antibody (Catalog # A03989). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	alpha-Tubulin antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	alpha-Tubulin antibody can be stored at 4°C, stable for up to one year.
Host	Rabbit
Uniprot ID	Q71U36

Technical Details

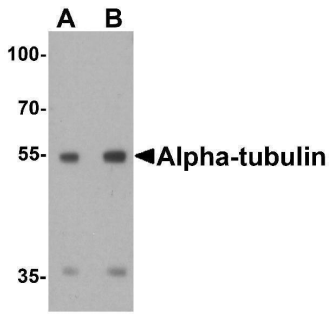
Immunogen	alpha-Tubulin antibody was raised against an 18 amino acid peptide near the carboxy terminus of human alpha-Tubulin
Predicted Reactive Species	Mouse

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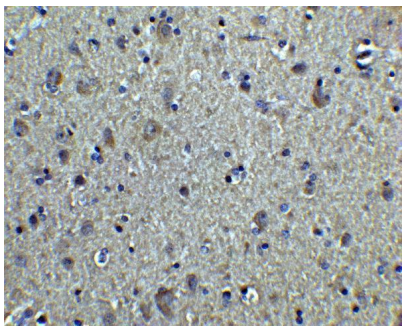
Cross Reactivity	alpha-Tubulin antibody is human, mouse and rat reactive.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	alpha-Tubulin antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	alpha-Tubulin antibody can be used for detection of alpha-Tubulin by Western blot at 1 - 2 ug/ml. Antibody can also be used for Immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human, mouse, and rat samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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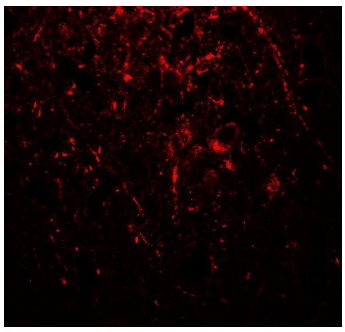
Anti-alpha-Tubulin TUBA1A Antibody (A03989) Images



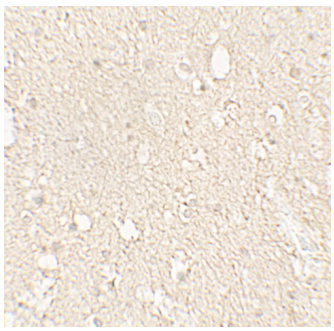
Western blot analysis of alpha-Tubulin in 293, Daudi, Hela, HepG2, Jurkat, K562, NH3T3, Raji, Ramos, U937, Human brain, Mouse brain, Rat Brain, Rabbit Brain, Rabbit Spleen, Zebrafish, Mouse Liver and Chicken liver lysate at 1 ug/mL.



Immunohistochemistry of alpha-Tubulin in human brain tissue with alpha-Tubulin antibody at 2.5 ug/ml.



Immunofluorescence of alpha-Tubulin in human brain tissue with alpha-Tubulin antibody at 20 ug/mL.



Immunohistochemistry of alpha-Tubulin in human brain tissue with alpha-Tubulin antibody at 5 ug/mL.

Anti-alpha-Tubulin TUBA1A Antibody

For Research Use Only. Not for use in diagnostic procedures.